

CLAIMS

1. A table top comprising
an exterior shell including a top sheet, a bottom sheet underlying the top sheet to define an interior region therebetween, and a perimeter bumper extending around the top and bottom sheets to define another boundary of the interior region,

a cellular core located in the interior region and arranged to lie between the top and bottom sheets, and

an interior frame located in the interior region, the interior frame including a rail interposed between the perimeter bumper and the cellular core and coupled to the perimeter bumper and at least one block interposed between the rail and the cellular core and coupled to the rail to rigidify the exterior shell.

2. The table top of claim 1, wherein the rail includes first and second side rails arranged to lie in spaced-apart relation to one another to locate the cellular core therebetween and first and second end rails arranged to lie in spaced-apart relation to one another to locate the cellular core therebetween, the at least one block includes four corner blocks, a first of the corner blocks is coupled to adjacent ends of the first side rail and first end rail, a second of the corner blocks is coupled to adjacent ends of the first end rail and second side rail, a third of the corner blocks is coupled to adjacent ends of the second side rail and second end rail, and a fourth of the corner blocks is coupled to adjacent ends of the second end rail and first side rail.

3. The table top of claim 2, wherein the cellular core is formed to include a first corner cutout located to receive the first of the corner blocks therein, a second corner cutout located to receive the second of the corner blocks therein, a third corner cutout located to receive a third of the corner blocks therein, and a fourth corner cutout located to receive a fourth of the corner blocks therein.

4. The table top of claim 2, wherein the at least one block further includes a first side block coupled to the first side rail and arranged to lie in spaced-apart relation to the first and second of the corner blocks and a second side block coupled to the second side rail and arranged to lie in spaced-apart relation to the third and fourth of the corner blocks.

5. The table top of claim 4, wherein the cellular core is formed to include a first side cutout located to receive the first side block therein, a first corner cutout located to receive the first of the corner blocks therein, a second corner cutout located to receive the second of the corner blocks therein, a second side cutout located to receive the second side block therein, a third corner cutout located to receive the third of the corner blocks therein, and a fourth corner cutout located to receive the fourth of the corner blocks therein.

6. The table top of claim 2, wherein each of the corner blocks is formed to include a bumper receiver facing toward the perimeter bumper, each of the side and end rails is formed to include a bumper receiver facing toward the perimeter bumper, and the perimeter bumper includes an outer rim extending around the side and end rails and lying outside of the interior region and a bumper retainer appended to the outer rim and arranged to extend into the bumper receivers formed in the side and end rails and in the corner blocks to retain the outer rim in a fixed position around the interior frame.

7. The table top of claim 6, wherein each side and end rail includes an upper strip coupled to the top sheet and a lower strip coupled to the bottom sheet and arranged to lie in spaced-apart relation to the upper strip to provide therebetween an elongated channel defining one of the bumper receivers formed in the side and end rails.

8. The table top of claim 6, wherein each corner block includes an upper strip coupled to the top sheet and a lower strip coupled to the bottom sheet and arranged to lie in spaced-apart relation to the upper strip to provide therebetween an elongated channel defining one of the bumper receivers formed in the corner blocks.

9. The table top of claim 2, wherein the first end rail includes a base coupled to the perimeter bumper and an end interlock portion appended to the base of the first end rail, the first side rail includes a base coupled to the perimeter bumper and a side interlock portion appended to the base of the first side rail, and the first of the corner blocks includes a rigidifying member arranged to lie adjacent to the cellular core, a first corner interlock portion coupled to the end interlock portion, and a second corner interlock portion coupled to the side interlock portion.

10. The table top of claim 9, wherein the first of the corner blocks includes a substantially L-shaped bumper mount having one end arranged to lie in confronting relation to a first end of the first end rail and in close proximity to the first corner interlock portion and having a second end arranged to lie in confronting relation to a first end of the first side rail and in close proximity to the second corner interlock portion, the L-shaped bumper mount is coupled to the rigidifying member and to the perimeter bumper and arranged to project outwardly from the rigidifying member to lie in a space located between the first ends of the first end rail and first side rail.

11. The table top of claim 9, wherein the end interlock portion includes upper and lower flanges arranged to lie in spaced-apart relation to one another to define a rail mount receiver therebetween and the first corner interlock portion includes a T-shaped rail mount appended to the rigidifying member and arranged to extend into the rail mount receiver defined between the upper and lower flanges of the end interlock portion.

12. The table top of claim 9, wherein the side interlock portion includes upper and lower flanges arranged to lie in spaced-apart relation to one another to define a rail mount receiver therebetween and the second corner interlock portion includes a T-shaped rail mount appended to the rigidifying member and arranged to extend into the rail mount receiver defined between the upper and lower flanges of the side interlock portion.

13. The table top of claim 1, wherein the at least one block includes a first side block coupled to the first side rail and arranged to lie in spaced-apart relation to the corner blocks.

14. The table top of claim 13, wherein the first side block includes a rigidifying member arranged to lie adjacent to the cellular core and an interlock portion appended to the rigidifying member and coupled to the first side rail, the top sheet is arranged to overlie the cellular core and the rigidifying member, the top sheet is coupled to the first side rail to establish a fixed position of the top sheet relative to the interior frame, the bottom sheet is arranged to underlie the cellular core and the rigidifying member, and the bottom sheet is coupled to the first side rail to establish a fixed position of the bottom sheet relative to the interior frame.

15. The table top of claim 13, wherein the first side rail includes a base including an upper strip and a lower strip arranged to lie in spaced-apart relation to the upper strip to provide therebetween an elongated channel receiving a portion of the perimeter bumper therein to retain the perimeter bumper in a fixed position on the first side rail, the first side rail further includes upper and lower flanges coupled to the base and arranged to provide therebetween a rail mount receiver extending along a length of the first side rail, and the first side block includes a rigidifying member arranged to lie adjacent to the cellular core and a rail mount appended to the rigidifying member and arranged to extend into the rail mount receiver defined between the upper and lower flanges.

16. The table top of claim 13, wherein the first side rail includes a base coupled to the perimeter bumper and an interlock portion appended to the base, the first side block includes a rigidifying member arranged to lie adjacent to the cellular core and an interlock portion appended to the base, and the interlock portions of the first side rail and first side block are coupled to one another and cooperate to define interlock means for mounting the rigidifying member for sliding movement relative to the base so that the rigidifying member can be moved to assume a selected position on the base during assembly of the interior frame and preparatory to insertion of the cellular core in the interior region of the exterior shell.

17. The table top of claim 13, wherein the rail further includes first and second end rails arranged to lie in spaced-apart relation to one another to locate the cellular core therebetween, the at least one block further includes a second side block coupled to the second side rail, and each of the first and second side blocks is located in a position in the interior region of the exterior shell that is substantially midway between the first and second end rails.

18. The table top of claim 1, wherein the rail is circular and is arranged to surround the cellular core and the at least one block includes a first side block coupled to the circular rail.

19. The table top of claim 18, wherein the cellular core is formed to include a first side cutout located to receive the first side block therein.

20. The table top of claim 18, wherein the at least one block further includes second, third, and fourth side blocks coupled to the rail.

21. The table top of claim 20, wherein the first and third side blocks have a first size and the second and fourth side blocks have a second size larger than the first size.

22. The table top of claim 20, wherein the first, second, third, and fourth side blocks are arranged to lie in spaced-apart relation to one another about the circular rail to form corners of a reference rectangle inscribed in the circular rail and each side block includes means for receiving a fastener arranged to couple a table leg frame to the bottom sheet so that the table leg frame is anchored in a fixed position to the bottom sheet of the table top.

23. The table top of claim 18, wherein the circular rail includes a base coupled to the perimeter bumper and a curved interlock portion appended to the base, the first side block includes a rigidifying member arranged to lie adjacent to the cellular core and a curved interlock portion appended to the rigidifying member, and the curved interlock portions of the circular rail and first side block are coupled to one another and cooperate to define interlock means for mounting the rigidifying member for sliding movement along a curved path relative to the base so that the rigidifying member can be moved to assume a selected position on the base of the circular rail during assembly of the interior frame and preparatory to insertion of the cellular core in the interior region of the exterior shell.

24. The table top of claim 18, wherein the circular rail includes a curved upper strip and a curved lower strip arranged to lie in spaced-apart relation to the curved upper strip to provide therebetween an elongated curved channel receiving a portion of the perimeter bumper therein to retain the perimeter bumper in a fixed position on the circular rail.

25. The table top of claim 18, wherein the circular rail includes curved upper and lower flanges arranged to provide therebetween a curved rail mount receiver extending along a curved length of the circular rail and the first side block includes a rigidifying member arranged to lie adjacent to the cellular core and a curved rail mount appended to the rigidifying member and arranged to extend into the curved rail mount receiver defined between the curved upper and lower flanges.

26. The table top of claim 25, wherein the circular rail further includes a curved upper strip and a curved lower strip arranged to lie in spaced-apart

relation to the curved upper strip to provide therebetween an elongated curved channel receiving a portion of the perimeter bumper therein to retain the perimeter bumper in a fixed position on the curved rail.

27. The table top of claim 18, wherein the interior frame further includes a first rigidifying beam having a first end coupled to the circular rail and an opposite second end coupled to the circular rail and the cellular core includes a first core portion lying on one side of the first rigidifying beam and a second core portion lying in spaced-apart relation to the first core portion on an opposite side of the first rigidifying beam.

28. The table top of claim 27, wherein the at least one side block further includes a second side block coupled to the circular rail and arranged to lie in spaced-apart relation to the first side block and the first core portion is formed to include a first side cutout located to receive the first side block therein and a second side cutout located to receive the second side block therein.

29. The table top of claim 27, wherein the interior frame further includes a second rigidifying beam lying in spaced-apart relation to the first rigidifying beam and having a first end coupled to the circular rail and an opposite second end coupled to the circular rail, the second core portion is arranged to lie on one side of the second rigidifying beam and between the first and second rigidifying beams, and the cellular core further includes a third core portion lying in spaced-apart relation to the second core portion on an opposite side of the second rigidifying beam.

30. The table top of claim 29, wherein the at least one side block further includes second, third, and fourth side blocks coupled to the circular rail and arranged to lie in spaced-apart relation to one another, the first core portion is formed to include a first side cutout located to receive the first side block therein and a second side cutout located to receive the second side block therein, and the third core portion is formed to include a third side cutout located to receive the third side block therein and a fourth side cutout located to receive the fourth side block therein.

31. The table top of claim 18, wherein the top and bottom sheets are coupled to the circular rail to retain the cellular core in the interior region.

32. The table top of claim 1, wherein each block includes means for receiving a fastener to couple a table leg frame to the bottom sheet so that the table leg frame is anchored in a fixed position to the bottom sheet of the table top.

33. A table top comprising

an interior frame including in series first, second, third, and fourth corner blocks, each corner block including a rigidifying member, a first corner interlock portion, a second corner interlock portion, and a corner portion extending between the first and second corner interlock portions, the interior frame further including a first end rail slidably coupled at one end thereof to the first corner interlock portion of the first corner block and at another end thereof to the first interlock portion of the second corner block, a first side rail slidably coupled at one end thereof to the second corner interlock portion of the second corner block and at another end thereof to the second corner interlock portion of the third corner block, a second end rail slidably coupled at one end thereof to the first corner interlock portion of the third corner block and at another end thereof to the first corner interlock portion of the fourth corner block, and a second side rail slidably coupled at one end thereof to the second corner interlock portion of the fourth corner block and at another end thereof to the second corner interlock of the first corner block,

a cellular core located in a space bounded by the side rails, end rails, and corner blocks, and

an exterior shell formed to include an interior region containing the interior frame and the cellular core.

34. The table top of claim 33, wherein the cellular core is formed to include a first corner cutout located to receive the first corner block therein, a second corner cutout located to receive the second corner block therein, a third corner cutout located to receive the third corner block therein, and a fourth corner cutout located to receive the fourth corner block therein.

35. The table top of claim 33, further comprising a first side block coupled to the first side rail and arranged to lie in spaced-apart relation to the first and second corner blocks and a second side block coupled to the second side rail and arranged to lie in spaced-apart relation to the third and fourth corner blocks.

36. The table top of claim 35, wherein the cellular core is formed to include a first side cutout located to receive the first side block therein, a first corner cutout located to receive the first corner block therein, a second corner cutout located to receive the second of the corner blocks therein, a second side cutout located to receive the second side block therein, a third corner cutout located to receive the third corner block therein, and a fourth corner cutout located to receive the fourth of the corner blocks therein.

37. The table top of claim 33, wherein each of the side and end rails includes upper and lower flanges arranged to lie in spaced-apart relation to one another to define a rail mount receiver therebetween, each first corner interlock portion includes a T-shaped rail mount appended to the rigidifying member and arranged to slide into one of the rail mount receivers, and each second corner interlock portion includes a T-shaped rail mount appended to the rigidifying member and arranged to slide into another of the rail mount receivers.

38. A table top comprising
an interior frame including a circular rail and in series first, second, third, and fourth side blocks slidably coupled to the circular rail for sliding movement along and around a circular path established by the circular rail to assume a selected position on the circular rail,

a cellular core located in a space bounded by the circular rail and the side blocks, and

an exterior shell formed to include an interior region containing the interior frame and the cellular core.

39. The table top of claim 38, wherein the first and third side blocks have a first size and the second and fourth side blocks have a second size larger than the first size.

40. The table top of claim 38, wherein the first, second, third, and fourth side blocks are arranged to lie in spaced-apart relation to one another about the circular rail to form corners of a reference rectangle inscribed in the circular rail and each side block includes means for receiving a fastener arranged to couple a table leg frame to the bottom sheet so that the table leg frame is anchored in a fixed position to the bottom sheet of the table top.

41. The table top of claim 38, wherein the interior frame further includes a first rigidifying beam having a first end coupled to the circular rail and an opposite second end coupled to the circular rail and the cellular core includes a first core portion lying on one side of the first rigidifying beam and a second core portion lying in spaced-apart relation to the first core portion on an opposite side of the first rigidifying beam.

42. The table top of claim 41, wherein the first core portion is formed to include a first side cutout located to receive the first side block therein and a second side cutout located to receive the second side block therein.

43. The table top of claim 41, wherein the interior frame further includes a second rigidifying beam lying in spaced-apart relation to the first rigidifying beam and having a first end coupled to the circular rail and an opposite second end coupled to the circular rail, the second core portion is arranged to lie on one side of the second rigidifying beam and between the first and second rigidifying beams, and the cellular core further includes a third core portion lying in spaced-apart relation to the second core portion on an opposite side of the second rigidifying beam.

44. The table top of claim 43, wherein the first core portion is formed to include a first side cutout located to receive the first side block therein and a second side cutout located to receive the second side block therein, and the third core portion is formed to include a third side cutout located to receive the third side block therein and a fourth side cutout located to receive the fourth side block therein.